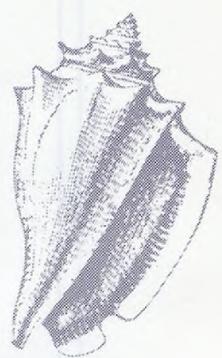


ACADEMY

NEWSLETTER OF THE CALIFORNIA ACADEMY OF SCIENCES

HOME OF
STEINHART
AQUARIUM,
MORRISON
PLANETARIUM,
NATURAL
HISTORY
MUSEUM



SPIDERS!

AUGUST 23 TO NOVEMBER 16

Creeping across a tree branch, the eight-legged creature makes a daring leap to the branch below. Should it miss, a single strand of silk, cemented to its starting point, will save the spider from crashing to the ground. The incredible silken lifeline is just one of the many mysteries to be unraveled at SPIDERS!, a special exhibit opening at the Academy August 23 through November 16.



Whether your reaction to spiders is *Eek!* or *Cool!*, you'll be charmed and amazed by this delightfully creepy, fun-filled, fact-packed exhibit. Visitors will have the rare opportunity to see live examples of spiders from around the world, plus larger-than-life models, murals, and photographs. There will also be interactive activities to help visitors discover why spiders have hairy legs, how they use their venom, and the amazing way they eat their food. And of course, find out if there's truth to the rumor that the black widow spider devours her mate.

SPIDERS! will only be at the Academy for a short time. Be sure to catch it before it scurries away!

An exhibition from the National Museum of Natural History, Smithsonian Institution.



HELP WEAVE THE WEB!

VOLUNTEER SERVICES IS SEEKING VOLUNTEERS TO HELP OUT WITH OUR NEWEST EXHIBIT, SPIDERS!, OPENING AUGUST 23. WEEKDAY, EVENING, AND WEEKEND SHIFTS ARE AVAILABLE. IF YOU WOULD LIKE TO HELP, (AND ARE 16 YEARS OR OLDER) PLEASE CALL (415) 750-7154 TODAY!

Smithsonian Institute

DINOSAUR ADVENTURE

THROUGH SEPTEMBER 1, 1997

If you still haven't seen DINOSAUR ADVENTURE, you're due for a Jurassic flashback. Our 8,000 square-foot Wattis Hall has been transformed and filled with *very* realistic dinosaurs that actually roar, stomp, and move like the real thing! Best of all, young explorers become dino detectives, ferreting out fossils and tracking down clues to the sizes, shapes, and behavior of Earth's great prehistoric land dwellers.

Visitors are transported as they cross the plank-and-rope bridge into a major paleontology expedition. The gallery looks like an excavation site, yet seemingly live, animated dinosaurs are juxtaposed with real dinosaur fossils. Dinosaur highlights include a swooping *Pteronodon* and a mother *Maiasaura* feeding her youngsters. More than ten of these enormous, robotic beasts provide a moving visual backdrop for a dynamic series of hands-on activities relating to the search, study and science of dinosaurs.

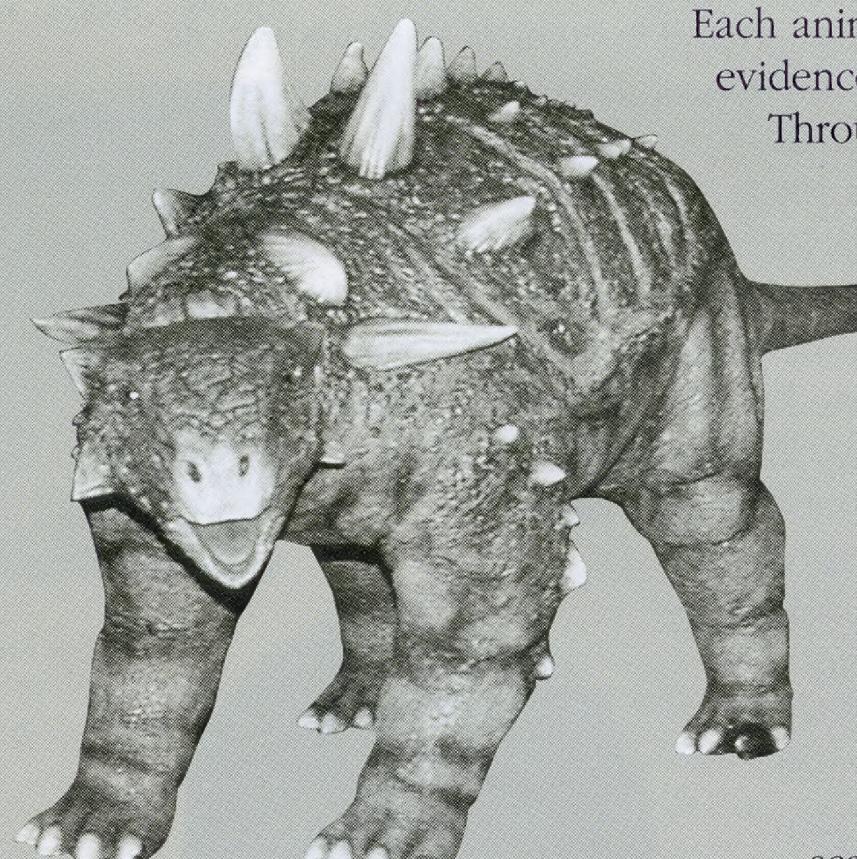
Each animated scene is based on scientific evidence of a given dinosaur's behavior.

Through the study of fossils, paleontologists have formulated theories about different dinosaur species. Clues like tooth shape and

bone structure shed light, for example, on whether the dinosaur was a hunter or an herbivore.

THE BIG DIG

The *Dinosaur Dig* recreates a real dig site. *Dig Boxes* are scaled-down versions of the *Dinosaur*



Dig site, so even the smallest explorers can participate. Other activities range in complexity from reconstructing a 3-D *Stegosaurus* in the *Skeleton Studio*, to creating a "fossil" of one's hand at *Leave a Trace*. Dig Captains serve as guides to answer questions and facilitate the learning process. Children are encouraged to wander as they wish, from casting dinosaur skulls to puzzling "bones" together on a velcro wall.

DINOSAUR ADVENTURE is the perfect blend of entertainment and education. Instead of passively viewing the exhibit, kids can roll up their sleeves and jump into an interactive expedition that makes learning inevitable. The "living" dinosaurs juxtaposed with actual dinosaur fossils create a unique visual connection between past and present. By the time visitors leave the exhibit, they have a sense of how we develop our theories and how much more we have to learn.

THE EDUCATION DEPARTMENT IS INSTALLING A NEW AND EXCITING COMPUTER LAB THIS SUMMER, AND WILL BE OFFERING CLASSES ON THE USES OF COMPUTERS IN THE WORLD OF SCIENCE.



NATURAL HISTORY ON THE WORLD WIDE WEB: AN INTERNET PRIMER

This hands-on class will begin with an introduction to the basic tools for locating animal and plant information on the Web, followed by a tour of some of the more popular natural history sites. We ask that students bring a few science questions for the class to research and answer by using the World Wide Web. No previous experience on the Internet is required.

Tuesday, August 5 — 7 p.m. to 9 p.m.

Instructor: Anne Malley

Cost: \$35 members/\$40 nonmembers

SCIENTIFIC ARCHIVES AND THE INTERNET

Many archival collections from repositories throughout the world are now accessible via the Internet. This hands-on class will explore a sample of science-oriented WWW archive resources. Search strategies to help focus the research process on the Internet will be introduced. Participants should have some basic familiarity with the Internet.

Tuesday, August 19 — 7 p.m. to 9 p.m.

Instructor: To be announced

Cost: \$35 members/\$40 nonmembers

WILD CALIFORNIA

This course is especially designed to help fifth and sixth grade teachers plan a successful science-based field study in the Bay Area. The first portion of this course will provide educators with a special tour of the Academy's Wild California Hall, with a focus on the wonderful diversity found in this great state. The following Saturday, we will take a field trip to the nearby Marin Headlands, where an emphasis will be placed on activities that bring learners to a greater understanding of diversity. This workshop is designed to incorporate the core disciplines and to address the multiple intelligence of students of all levels. By the end of this comprehensive course, teachers will have a variety of new tools and activities to lead their own science-based field studies exploring our local wild places.

Class: Thursday, July 31 — 7 p.m. to 9 p.m.

Field Trip: Saturday, August 2 — 9 a.m. to 3 p.m.

Instructor: Dave Poarch

*Cost: \$35 members/\$45 nonmembers
(does not include transportation)*

To register, please use the order form on the back of the newsletter. For more information about these and other classes, contact the Adult and Family Education Department at (415) 750-7100.

ASTRONOMY LECTURE

BRINGING DOWN THE UNIVERSE: DESIGNING A PLANETARIUM FOR THE 21ST CENTURY

WITH DR. NEIL DE GRASSE TYSON

Dr. Neil de Grasse Tyson is Director of New York City's Hayden Planetarium, which is currently undergoing a \$70 million reconstruction. The new facility will use novel approaches to the design and content of the building, its exhibits, and the sky theater itself to connect the visitor in unprecedented ways to the mysteries of the universe.

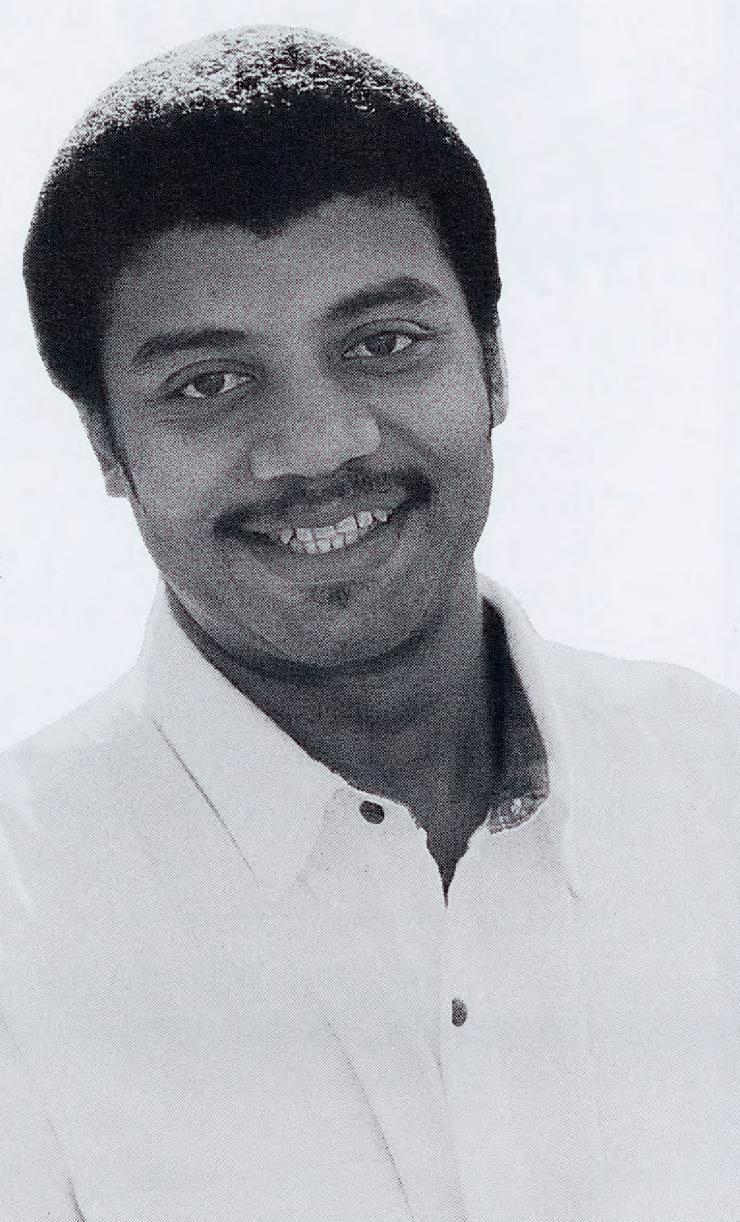
It has been over seventy years since engineers at Carl Zeiss, Inc., invented the planetarium star projector to teach the fundamentals of astronomy to the general public. These fundamentals included identifying planets, stars and constellations in the night sky. But as cosmic discovery unfolded, peering upon the projected night sky could no longer convey the excitement of our new astronomical knowledge. Over the years, the science of astronomy grew rapidly to include, among other things, the expanding universe, quasars, pulsars, black holes, the big bang, space travel and the discovery of planetary systems beyond our own. Nowadays, high-tech image projection techniques for the sky theater as well as a tandem museum of the universe are required to bring the universe down to Earth.

Dr. Tyson will describe his efforts to accomplish this goal at the Hayden Planetarium, and how these efforts were influenced by the content of his Q&A book *Merlin's Tour of the Universe*, which was recently released in paperback and will be available at the lecture.

*Tuesday, August 19 — 7:30 p.m.
(Morrison Planetarium)*

Tickets: \$3 each

Please use the order form for tickets. For more information, please call (415) 750-7141.



Stern Grove Festival



The Stern Grove Festival is an annual tradition which takes place in Sigmund Stern Grove. Once again, we are collaborating with the Stern Grove Festival Association to bring musical preview performances to the Academy. This year's performers are some of the best ever.

M-Pact

THURSDAY, JULY 17 ★ M-Pact is an a cappella quintet performing a variety of pop, rock, and rhythm & blues. The group's background is extraordinarily diverse, ranging from choral singing to opera and jazz. The result is the same rich performance that made M-Pact the winner at the Harmony Sweepstakes National Finals in 1996.

John Santos & the Machete Ensemble



THURSDAY, AUGUST 7 ★ This African-rooted American group delves into jazz, focusing on Afro-Cuban and Afro-Caribbean music. The acclaimed orchestra plays a range of Cuban religious/ritual music, as well as a fresh batch of rhythmically diverse originals.

Performances take place from noon to 1 p.m. in the auditorium, and are free after general admission to the Academy.

EARLY MORNING CONTINENTAL BREAKFAST WITH SPIDERS & DINOSAURS

Enjoy a Continental Breakfast and be the first to explore SPIDERS on Saturday morning, August 23rd, from 8 to 10 a.m. This special preview is free to all members. You'll also be able to visit the DINOSAUR ADVENTURE exhibit and perhaps do a little digging!

Nonmember guest tickets are \$15 each and may be purchased at the door the morning of the event. Member's guest passes are not valid for members-only events.



MEMBERS MEETING

July

TONY'S TRICERATOPS: HUNTING DINOSAURS IN EASTERN MONTANA

With Dr. Peter Rodda, Curator of Geology, CAS



If you wanted to collect a fossil dinosaur, how would you go about it? Dr. Peter Rodda, the Academy's Curator of Geology, will recount the story of the Academy's expedition to Montana to collect a *Triceratops* dinosaur for the Hall of Life Through Time. He will also answer

the questions of where to look, where to stay, what tools one would need, and how long it would take. Join us to learn the where, what, and how of dinosaur hunting! Wednesday, July 9 — 2 p.m. & 7:30 p.m.

August

WETLANDS IN A CULTURAL CONTEXT

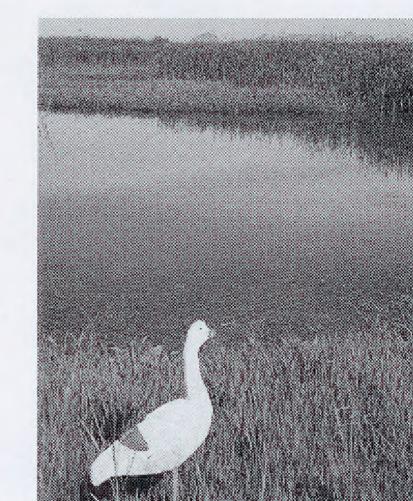
With Tom Moritz, CAS Head Librarian and Sam Wilson, CAS Research Associate and Environmental Consultant

Now that we know that wetlands are worth saving, how do we go about doing it? "No net loss" of wetland habitat has broad support as a national priority, but we are still groping for ways to reverse a long tradition of destruction. In this lecture and slide show, Sam and Tom will consider wetland policies in a historical context and look at a number of representative restoration and mitigation projects. Such projects are typically planned to be permanent, but powerful sociopolitical as well as ecological forces can thwart the best of bureaucratic intentions. The presentation will focus on the need for ongoing maintenance and local support.

Moritz, the Academy's head librarian, has long been an active environmentalist. He is chair of the Information Management Task Force, World Commission on Protected Areas of the WCN (World Conservation Union). Wilson, an Academy research associate and environmental consultant, has worked in wetland restoration for more than 10 years. Together, Wilson and Moritz have compiled *The Sierra Club Wetlands Reader*, a diverse collection of readings on the wetlands of North America drawn from literary, historical, scientific, and regulatory sources. A book signing will follow the presentation.

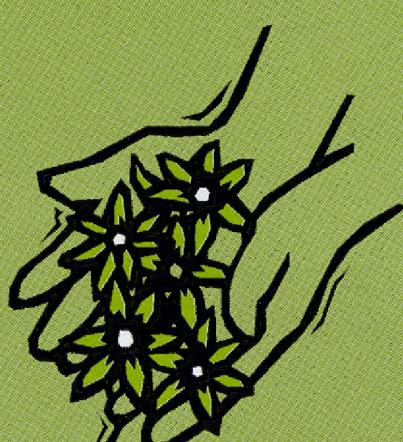
Wednesday, August 13 — 2 p.m. & 7:30 p.m.

Members meetings are a benefit of membership. Present your membership card at both the front entrance and the auditorium. Members' guests can purchase tickets for \$10 each for adults and \$5 for children at the Membership Booth at the main Academy entrance. Please note: Only the main entrance will be open.



COMMUNITY GIVING IDEA

Give your favorite social agency or nonprofit organization a Group Membership. For \$250 per year, Group Members are offered unlimited access to the Academy for up to eight individuals. Qualifying as a nonprofit organization serves one of the following: children, seniors (public/private), and individuals with disabilities. This excludes: schools (public/private), and nonprofit organizations who do not serve one of the above. Please call the Membership Office at (415) 750-7112 for information.



TRADITIONAL ARTS

July

WILLOW FURNITURE

Willow (twig) furniture was popular in England during the 18th century and was used primarily in outdoor gardens and porches. It came to America in the early 1800's and was established in the Appalachian region, and was sold and traded across the country by craftsmen and wandering gypsies. Tony Black and his wife Phyllis will demonstrate some of the techniques used in the craft. July 12 — 1 p.m.



CELTIC MUSIC

The exciting trio Paradise Lost plays a wide variety of musical styles in the Scottish and Irish traditions. The group will play the fiddle, Irish harp and guitar, accompanied by vocals. July 19 — 1 p.m.

FILIPINO MARTIAL ARTS

Please join Joe Arreola for a demonstration of *Kali* — a type of Filipino martial arts considered a warrior practice indigenous to Southeast Asia. It has been present in the Philippines prior to Spanish colonialism as a method of combat and a healing custom. According to Mr. Arriola, *Kali* is unlike any other martial art, since it tends to be "exceptionally flowery" and dance-like. July 26 — 1 p.m.

August

COLOMBIAN REGIONAL DANCE

The Colombian Ethnic Project will perform traditional dances from different regions of the country. The origins of the dances can be traced back to the rituals of the indigenous people of Colombia. Cumbia and Garabato dances are practiced in the Northern Caribbean Coast, Joropo in the Eastern Plains, and San Juanero in the High Plains of the Andes.



August 2 — 1 p.m.

MUSIC FROM IRAN

The Behrouz Sadeghian Ensemble performs a medley of Iranian folk songs and music on traditional instruments, including the violin, santour (a type of hammered dulcimer), and dombak (goblet-shaped drum). August 9 — 1 p.m.

WELSH SPOON CARVING

The custom of giving decorated spoons to loved-ones originated in Wales. Mrs. Stella Stewart will demonstrate the different techniques and tools used in wood carving as well as display her carved designs and woods. August 16 — 1 p.m.

HAWAIIAN LEIS

Mark Ho'Omalu will talk about the cultural significance of Leis, garlands of fresh flowers made and worn in Hawaii. During the presentation Mr. Ho'Omalu will weave, braid and string ferns, leaves, flowers and feathers, creating different styles of leis. August 23 — 1 p.m.

Explore cultural traditions from around the world in these one-hour presentations held Saturdays in the auditorium. Free after general admission. Call (415) 750-7165 for more information.

A HISTORY OF WILDLIFE CONSERVATION IN AFRICA

WITH DR. DAVID WESTERN

For more than 20 years, Dr. David "Jonah" Western has led wildlife conservation efforts in Kenya. As a researcher for the Wildlife Conservation Society, he was a driving force in creating Amboseli National Park in 1974, and the banning of international ivory sales a few years later.

Today, as the Director of the Kenya Wildlife Service, African-born Western will give audiences a glimpse into his life as a global spokesperson for this fabled landscape. His new book, *In the Dust of Kilimanjaro*, looks at efforts to preserve species and protect ecosystems while balancing the needs of growing local economies.

On September 11, Western will present a brief history of wildlife conservation in Africa, its challenges and successes. The lecture will be followed by a book-signing.

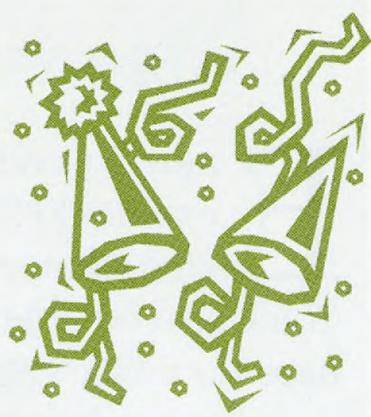
*Thursday, September 11 — 7 p.m.
Tickets: \$6 members/\$10 non-members*

Please use the order form on the back of the newsletter for tickets. For more information, call (415) 750-7128.



Hans Reinhard, Bruce Coleman, Inc.

PARTIES FOR KIDS AT THE ACADEMY!



This year, let us do the work while your kids have the time of their lives.

Academy parties are full of fun activities and educational games to make the special day great. These 90-minute weekend party packages include: admission into the Academy, a reserved area for the party, Academy hosts

and hostesses, invitations, party favors, and a gift for the party child. Also included are all paper goods, set up, and of course, the dreaded clean up. You supply the cake and drinks, and

choose from a range of party themes. Up to twelve kids, ages 5 to 10, can enjoy the party for \$215 for Academy members and \$235 for nonmembers. Each additional child is \$12, with a maximum of 24 children for each party.

Prices are subject to change. For more information, please call the Group Sales Department at (415) 750-7462.



DIVE INTO SUMMER FUN AT THE JUNIOR ACADEMY

HANDS-ON SCIENCE ADVENTURES AT THE JUNIOR ACADEMY, JUNE 23 – AUGUST 29!

DINO SCIENCE

Standing in front of the Academy's *Tyrannosaurus rex* skeleton arouses awe, wonder, astonishment and admiration in all of us. This summer, there'll be some competition for our attention with the DINOSAUR ADVENTURE exhibition. Be ready for *Apatosaurus*, *Deinonychus* and more! When and where did these animals live? What was the Earth like 116 million years ago? Dig deep into the world of paleontology and unearth the science behind these legendary creatures.

*Tuesday, July 8 through Thursday, July 24 — 1:30 p.m. to 3 p.m.
Instructor: Soncie Veil
Ages: 6-8 years
Cost: \$40*

PONDS OF GOLDEN GATE PARK

Dip into the ponds of Golden Gate Park to discover some amazing creatures. We'll collect and identify the animals we find, then bring them back to the Academy for a closer look under powerful microscopes before returning them to their ponds. Along the way, we'll gain insight into how animals can teach us about the health and stability of a pond.

*Friday, August 15 — 1 to 4 p.m.
Instructor: Jack Laws
Ages: 9-16 years
Cost: \$25.*

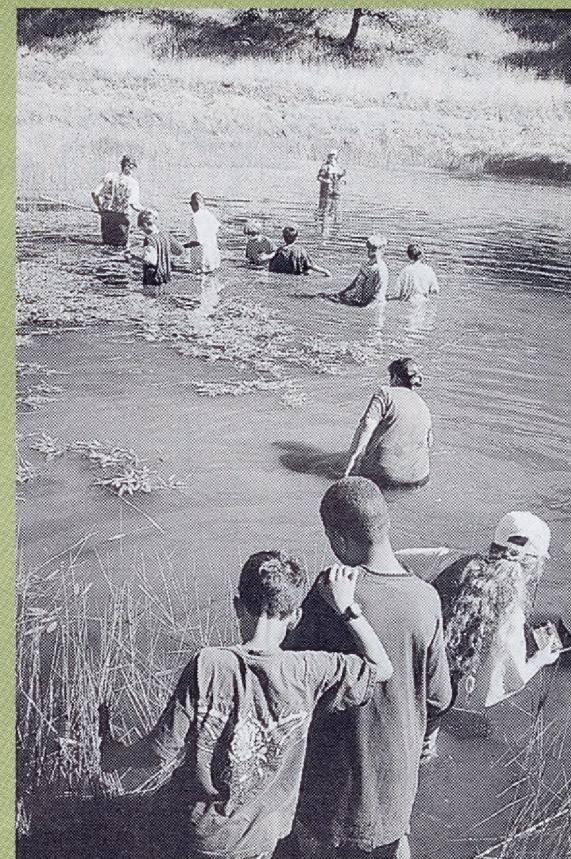
HEADLANDS WILDLIFE HOT SPOTS

Join naturalist David Poarch for an all-day field trip to the beautiful Marin Headlands. Check out the habits and habitats of the diverse fauna that live there. Discover where the bobcats prowl, the horned owls roost and the coyotes yowl.

*Friday, July 25 — 9 a.m. to 5 p.m.
Instructor: David Poarch
Ages: 10-16 years
Cost: \$30*

RATTLESNAKES

Rattlesnakes can be scary, but by learning more about them we can better appreciate these incredible animals. Make moving models of the fang-jaw mechanism of the rattlesnake, discover how it sees heat and feels sound, touch one of its natural enemies (a snake-eating snake!) and learn what to do if you encounter a rattlesnake on a hike. We will dissect a rattlesnake to learn about its body. Our special guest will be Ryan Stroupe from the PG&E Energy Center, who will demonstrate



rattlesnake heat "vision" with PG&E's infrared/heat imaging videocamera.

*Tuesday, August 12 — 1 p.m. to 4 p.m.
Instructor: Jack Laws
Ages: 9-16 years
Cost: \$25*



Please use the order form to register. The Junior Academy offers a wide variety of programs for children 6-16 years. For current availability of these and other summer classes, please call 750-7100.

MORRISON PLANETARIUM'S UNIVERSAL TOURS

A Tour of the Universe continues daily as the Academy's star pilots take audiences on a whirlwind voyage through the cosmos, from our nearest neighbor in space to the outermost galaxies, all beneath the skydome of Northern California's largest indoor universe. *Tales of a Comet* explores humankind's fascination with comets, *Startalk* offers a glimpse of the current night sky over San Francisco, and *Neighbors in Space*, with Moon Mouse, takes families with small children on a trip through the solar system.

On Friday, July 4th, the Planetarium will be on holiday hours, with Sky Shows hourly from 11 a.m. to 4 p.m. and Laserium at 5:00 p.m. and later (this schedule will also be followed on Free Wednesday, July 2nd, but without Laserium shows).

Skyshow/Description	Weekday	Weekend
A Tour of the Universe through November 30, 1997	2:00 p.m.	2 & 4 p.m.
Tales of a Comet through September 7, 1997	3:30 p.m.	1 & 3 p.m.
Startalk	12:30 p.m.	12:00 p.m.
Neighbors in Space	11:00 a.m.	11:00 a.m.

The Planetarium's summer schedule begins on Monday, July 7th, with weekday showings of *Neighbors in Space* at 11:00 a.m., *Startalk* at 12:30 p.m., *A Tour of the Universe* at 2 & 4 p.m., and *Tales of a Comet* at 1 & 3 p.m.

Tickets can be purchased one-half hour before the show (box office opens at 10:30 a.m. on weekends) at the box office once inside the Academy of Science (\$2.50 adults/\$1.25 youth & seniors, though some shows vary). Members must redeem their passes for tickets at the box office before entering the theater. If you have a child under 6 years old with you, please ask the cashier for a "Child's Pass." For more information, please call (415) 750-7141. For skywatching information courtesy of the Morrison Planetarium, call (415) 750-7141, option - 4, or log on to the Planetarium section of the Academy's site on the World Wide Web at www.calacademy.org.

LASERIUM

Academy members between the ages of 13 and 64 can now take advantage of discounted admission to all Laserium shows, featuring multicolored laser graphics and All-Sky Animation set to music! Upon presentation at the Laserium ticket counter of a current Academy membership card, members and their guests will be admitted at the discounted price of \$6.00 for 3D shows and \$5.00 for all other shows (3D admission price includes the purchase of ChromaDepth 3D glasses).

For show descriptions and full schedule, call (415) 750-7138 or log on to Laserium's web pages at www.laserium.com.

"HISTORY ON THE ROCKS"

43RD ANNUAL GOLDEN GATEWAY TO GEMS SHOW
WITH A SPECIAL PRESENTATION BY DR. JEAN DEMOUTHE,
THE ACADEMY'S SENIOR COLLECTIONS MANAGER OF
INVERTEBRATE ZOOLOGY AND GEOLOGY

The 43rd annual Golden Gateway to Gems show of the San Francisco Gem and Mineral Society will be held on Saturday, August 2 and Sunday, August 3 in the San Francisco County Fair Building (Hall of Flowers) in Golden Gate Park.

The Academy of Sciences will exhibit examples of rare and fascinating fossils at the show, many from the San Francisco area. Jean DeMouthe of the Academy's Geology Department will speak at the show at 2 p.m. on Sunday, August 3 on the subject of how fossils were formed and the conditions under which they have been so well preserved.

The show will take place from 10 a.m. to 6 p.m. on Saturday and 10 a.m. to 5 p.m. on Sunday. Academy members will receive a 50¢ discount on the \$4 admission fee. For more information about the Golden Gateway to Gems show, please call (415) 564-4230.



Insects, Bugs & Rock 'n Roll

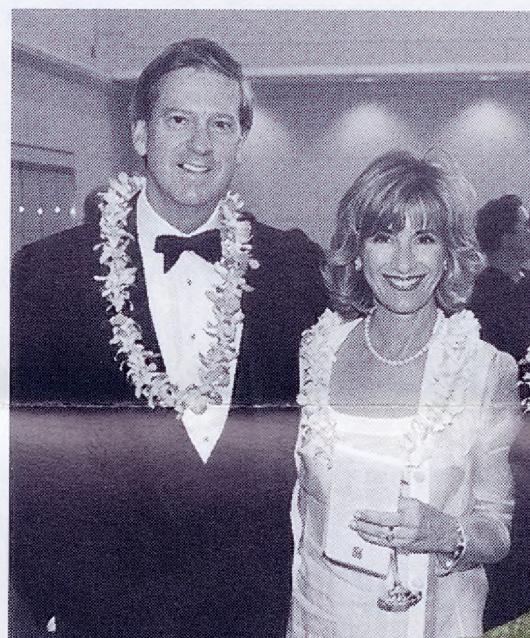


Well here's the BUZZZZZ on this year's California Academy of Sciences' Summer Gala, *Insects, Bugs & Rock 'n Roll!* This black-tie evening of music, cocktails, dining, and laser show will take place Saturday, July 12. Proceeds from this and other special events support the Academy of Sciences' research and education mission.

Saturday, July 12, 1997
8:30 p.m. – 1 a.m.
Tickets: \$85/person
\$80/person for four or more paying together
\$1000/10 for Sponsor tickets

Please use the order form for tickets, call the Gala Hotline at (415) 750-7477, or visit our website at <http://www.calacademy.org>.



Judy and Ken Siebel, Dinner Committee Chairs, greeted guests as they arrived at the Academy of Sciences' 12th Annual Ball. Below, Bernice Behrens joined a towering spirit of spring in celebrating the Ball's theme, "The Merry Month of May." Guests dined and danced amid celebrations of the rites of spring from around the world.



JULY/AUGUST

July

2 Wednesday Weekend Sky Show schedule in effect. Sky Shows hourly from 11 a.m. to 4 p.m.

4 Friday Weekend Sky Show schedule in effect. Sky Shows hourly from 11 a.m. to 4 p.m.

7 Monday Planetarium Summer Schedule Begins

9 Wednesday Tony's Triceratops, 2 p.m. & 7:30 p.m. (Members Meeting)

12 Saturday Willow Furniture, 1 p.m. (Traditional Arts) Summer Gala: Insects, Bugs & Rock 'n Roll

17 Thursday M-Pact, noon to 1 p.m. (Stern Grove Performance)

19 Saturday Celtic Music, 1 p.m. (Traditional Arts)

26 Saturday Filipino Martial Arts, 1 p.m. (Traditional Arts)

August

2 Saturday Colombian Regional Dance, 1 p.m. (Traditional Arts)

7 Thursday John Santos & the Machete Ensemble noon to 1 p.m. (Stern Grove Performance)

9 Saturday Music From Iran, 1 p.m. (Traditional Arts)

13 Wednesday Wetlands in a Cultural Context, 2 p.m. & 7:30 p.m. (Members Meeting)

16 Saturday Welsh Spoon Carving, 1 p.m. (Traditional Arts)

19 Tuesday Bringing Down the Universe, 7:30 p.m. (Planetarium Lecture)

23 Saturday

SPIDERS! opens
Members Continental Breakfast, 8 a.m. to 10 a.m.
Hawaiian Leis, 1 p.m. (Traditional Arts)

VISITOR INFORMATION

Special Exhibitions: "Dinosaur Adventure" through Sept. 1 • "Folk Toys: The Playful Arts of Japan," through June • "Rugs of Teec Nos Pos: Jewels of the Navajo Loom," through September 27. • **Feeding Times:** Fish Roundabout, 2 p.m.; Penguins, 11:30 a.m. & 4 p.m. • **Guided Tours:** Free one-hour highlight tours daily. • **Laserium Shows:** Thu.-Sun. evenings. • **Free Day:** First Wed. of each month. • **Hours:** Open every day of the year. Winter hours 10 a.m.- 5 p.m. Summer hours (Memorial Day weekend to Labor Day) 9 a.m.- 6 p.m. • **Information:** Hotline (415) 750-7145, World Wide Web site <http://www.calacademy.org>

California Academy of Sciences

Golden Gate Park
San Francisco, CA 94118-4599

Address Correction Requested
TIME-DATED MATERIAL

ORDER FORM

Nonprofit Organization
U.S. Postage Paid
Permit No. 3565
San Francisco, CA

ADULT EDUCATION	Qty/Members	Qty/Nonmembers	Total	B. DEAN ASTRONOMY LECTURE SERIES	Quantity	Total	
Please call (415) 750-7100 for availability.				Bringing Down the Universe/Aug. 19	X \$3	=	
Natural History on the World Wide Web/Aug. 5	X \$35	X \$40	=	SPECIAL EVENTS	Quantity	Total	
Scientific Archives and the Internet/Aug. 19	X \$35	X \$40	=	Summer Gala: Insects, Bugs & Rock 'n Roll/July 12	X \$85	=	
Wild California/July 31	X \$35	X \$45	=	THE WILDLIFE TALKS SERIES	Qty/Members	Qty/Nonmembers	Total

JUNIOR ACADEMY

Quantity		Total
Dinoscience/July 8-24	X \$40	=
Ponds of Golden Gate Park/Aug. 15	X \$25	=
Headlands Wildlife Hotspots/July 25	X \$30	=
Rattlesnakes/Aug. 12	X \$25	=

GIFT MEMBERSHIP FORM

I wish to give a gift membership to: _____

Address: _____ City: _____

State: _____ Zip: _____ Phone () _____

\$45 Individual \$60 Family of Grandparent

\$40 Dual Senior \$35 Senior \$125 Curators Circle

Payment enclosed: _____

TOTAL PAYMENT ENCLOSED

\$ _____ Check (make payable to CAS)

Visa MasterCard American Express (\$10 minimum on credit card orders)

Card Number: _____ Exp. Date: _____

Daytime Phone: _____

Mail payment and order form to: Membership Office, Ticket Services, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118-4599

Include a self-addressed, stamped envelope for each series to which you subscribe.

No refunds/exchanges.

678

TRAVEL

ANNOUNCING OUR 1998 TOURS



"Wherever I looked, I found a prodigality of pattern and colour for which I was quite unprepared. It was a revelation of the splendour and fecundity of the natural world from which I have never recovered." — David Attenborough

NATURAL TREASURES OF THE LOWER CARIBBEAN AND THE ORINOCO RIVER ABOARD THE MV YORKTOWN CLIPPER with Dr. Carl Ferraris December 22, 1997—January 2, 1998

GREAT CIVILIZATIONS OF ANCIENT MEXICO with Dr. Richard Hansen and Deidre Kieran January 6—19

BAJA: AMONG THE GREAT WHALES with Dr. Terry Gosliner January 17—25

ANTARCTICA AND THE FALKLAND ISLANDS with Dr. John McCosker and Pam McCosker aboard the MV HANSEATIC January 26—February 10

BELIZE: REEF ECOLOGY with Dr. Gary Williams February 7—14

TURKEY AND THE TURQUOISE COAST

with Dr. Samuel Taylor

May 21—June 7

ALASKA OVERLAND

with Dr. Dave Kavanaugh and Bev Kavanaugh

June—July

LAKE BAIKAL AND THE GREAT SIBERIAN TAIGA

with Dr. Pat Kociolek

August 9—23

COASTAL WATERWAYS OF THE PACIFIC NORTHWEST ABOARD MV SEA LION

September 20—26

MADAGASCAR (WITH EXTENSION TO THE SEYCHELLES) with Dr. Frank Almeda October—November

FRANCE: TOTAL SOLAR ECLIPSE

August 5—12, 1999

For details and itineraries for these tours, please call Deidre Kieran or Nancy Fuller in the Academy Travel Office at (415) 750-7348.

LETTER FROM THE DIRECTOR

On behalf of the Academy, I would like to take this opportunity to extend our deepest thanks to those who participated in our \$100,000 Challenge Grant. We would especially like to thank the donors whose sponsorship made it all possible. Your generosity has made this an overwhelming success, with 1,144 new or increased gifts totalling \$157,321 toward scientific research and education. It is due to your support that we have initiated programs such as the Early Childhood Program, which concentrates on promoting scientific interest that can last a lifetime in young children. Thank you, members, for your participation and support of the Academy's mission to explore and explain the natural world.



ACADEMY STORE

If you dig dinosaurs, visit the Academy's DINOSAUR ADVENTURE STORE located in the exhibit. The "I Dig Dinosaurs" kit lets you experience how paleontologists dig up dinos. After you've dug up your very own dinosaur, you can assemble and preserve it for display, just like a museum does. Collect all six excavation kits, from baby Triceratops and baby T. rex to the fossil replica kit with life-size teeth, bone and claw. The store also carries a wide range of toys, gifts, T-shirts and more, all relating to the wild world of dinosaurs!

WHOM TO CALL Academy Info, 750-7145 • Academy Store, 750-7410 • Aquarium, 750-7247 • Biodiversity Center, 750-7361 • Development Office, 750-7216 • Docent Tours, 750-7155 • Education Office, 750-7100 • Group Admissions, 750-7159 • Job Hotline, 750-7333 • Laserium, 750-7138 • Special Lectures, 750-7128 • Library, 750-7102 • Membership Office, 750-7111 • Planetarium, 750-7141 • Planned Giving, 750-7216 • Receptionist, 221-5100 • Security, 750-7000 • Travel, 750-7348 • Volunteer Services, 750-7154 • Weekend Information, 750-7375

© 1997 California Academy of Sciences — EDITOR, Samantha Moss / DESIGN, Johanna Dimayuga / PRINTING, Fruitridge Printing & Lithograph Inc. Printed on recycled paper with soy-based ink.

DEDICATED TO SCIENTIFIC RESEARCH & EDUCATION, INSPIRING RESPECT FOR THE NATURAL WORLD